

241964-2026 - Competition

Ireland – Detection and analysis apparatus – Integrated Measurement System for 2D/3D Fluid /Particle Velocity and Surface Deformation (2D/3D-PIV-DIC) for Trinity College Dublin (TCD)

OJ S 69/2026 09/04/2026

Contract or concession notice – standard regime

Supplies

1. Buyer

1.1. Buyer

Official name: Trinity College Dublin the University of Dublin_336

Email: mireilly@tcd.ie

Legal type of the buyer: Body governed by public law

Activity of the contracting authority: Education

2. Procedure

2.1. Procedure

Title: Integrated Measurement System for 2D/3D Fluid/Particle Velocity and Surface Deformation (2D/3D-PIV-DIC) for Trinity College Dublin (TCD)

Description: The Department of Mechanical, Manufacturing and Biomedical Engineering in Trinity College Dublin requires the supply, delivery, installation, and commissioning of an advanced 2D/3D Particle Image Velocimetry (PIV) and Digital Image Correlation (DIC) system to support cutting-edge experimental research in fluid dynamics and solid mechanics. The system shall comprise a high-energy pulsed laser, synchronised high-resolution cameras, precision timing and control units, and fully integrated acquisition and analysis software. The solution must be capable of capturing high-accuracy, time-resolved measurements of velocity fields, particle motion, and surface deformation, enabling two-dimensional (2D) and ideally also three-dimensional (3D) analysis. It should support applications involving complex flow regimes, multiphase flows, and structural behaviour under varying conditions. Flexibility for future upgrades is essential, including the potential to incorporate temperature and scalar concentration measurements. The equipment must demonstrate proven reliability, accuracy, and repeatability, and be suitable for intensive research use. Full installation, calibration, commissioning, and user training are required, along with comprehensive documentation and ongoing technical support. The system must integrate seamlessly with existing laboratory infrastructure and contribute to enhancing the Department's research capabilities and output.

Procedure identifier: 4529e2fd-6faa-410a-9e18-6832ccc3a92a

Type of procedure: Open

The procedure is accelerated: no

2.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38430000 Detection and analysis apparatus

Additional classification (cpv): 38400000 Instruments for checking physical characteristics, 38540000 Machines and apparatus for testing and measuring, 38600000 Optical instruments

2.1.2. Place of performance

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

2.1.3. Value

Estimated value excluding VAT: 80 500,00 EUR

2.1.4. General information

Legal basis:

Directive 2014/24/EU

2.1.6. Grounds for exclusion

Sources of grounds for exclusion: Procurement Document

5. Lot

5.1. Lot: LOT-0001

Title: Integrated Measurement System for 2D/3D Fluid/Particle Velocity and Surface Deformation (2D/3D-PIV-DIC) for Trinity College Dublin (TCD)

Description: The Department of Mechanical, Manufacturing and Biomedical Engineering in Trinity College Dublin requires the supply, delivery, installation, and commissioning of an advanced 2D/3D Particle Image Velocimetry (PIV) and Digital Image Correlation (DIC) system to support cutting-edge experimental research in fluid dynamics and solid mechanics. The system shall comprise a high-energy pulsed laser, synchronised high-resolution cameras, precision timing and control units, and fully integrated acquisition and analysis software. The solution must be capable of capturing high-accuracy, time-resolved measurements of velocity fields, particle motion, and surface deformation, enabling two-dimensional (2D) and ideally also three-dimensional (3D) analysis. It should support applications involving complex flow regimes, multiphase flows, and structural behaviour under varying conditions. Flexibility for future upgrades is essential, including the potential to incorporate temperature and scalar concentration measurements. The equipment must demonstrate proven reliability, accuracy, and repeatability, and be suitable for intensive research use. Full installation, calibration, commissioning, and user training are required, along with comprehensive documentation and ongoing technical support. The system must integrate seamlessly with existing laboratory infrastructure and contribute to enhancing the Department's research capabilities and output. Internal identifier: TCD-25-C1894

5.1.1. Purpose

Main nature of the contract: Supplies

Main classification (cpv): 38430000 Detection and analysis apparatus

Additional classification (cpv): 38400000 Instruments for checking physical characteristics, 38540000 Machines and apparatus for testing and measuring, 38600000 Optical instruments

5.1.2. Place of performance

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

5.1.3. Estimated duration

Duration: 12 Months

5.1.5. Value

Estimated value excluding VAT: 80 500,00 EUR

5.1.6. General information

Reserved participation:

Participation is not reserved.

Procurement Project not financed with EU Funds.

The procurement is covered by the Government Procurement Agreement (GPA): yes

5.1.7. Strategic procurement

Aim of strategic procurement: Reduction of environmental impacts

Description: 10% weighting allocated to Section D. Environment and Sustainability in the tender documents

Approach to reducing environmental impacts: Climate change mitigation

Green Procurement Criteria: National Green Public Procurement criteria

5.1.9. Selection criteria

Sources of selection criteria: Procurement Document

5.1.11. Procurement documents

Languages in which the procurement documents are officially available: English

Languages in which the procurement documents (or their parts) are unofficially available: English

Deadline for requesting additional information: 23/04/2026 00:00:00 (UTC+01:00) Central European Time, Western European Summer Time

Address of the procurement documents: <https://www.etenders.gov.ie/epps/cft/listContractDocuments.do?resourceId=7860800>

5.1.12. Terms of procurement

Terms of submission:

Electronic submission: Required

Address for submission: <https://www.etenders.gov.ie/epps/cft/viewTenders.do?resourceId=7860800>

Languages in which tenders or requests to participate may be submitted: English

Electronic catalogue: Not allowed

Tenderers may submit more than one tender: Allowed

Deadline for receipt of tenders: 30/04/2026 00:00:00 (UTC+01:00) Central European Time, Western European Summer Time

Duration during which the tender must remain valid: 6 Days

Information about public opening:

Opening date: 30/04/2026 00:30:00 (UTC+01:00) Central European Time, Western European Summer Time

Place: <https://www.etenders.gov.ie/epps/cft/prepareViewCfTWS.do?resourceId=7860800>

Terms of contract:

The execution of the contract must be performed within the framework of sheltered employment programmes: No

Electronic invoicing: Allowed

Electronic ordering will be used: yes

Electronic payment will be used: yes

5.1.15. Techniques

Framework agreement:

No framework agreement

Information about the dynamic purchasing system:

No dynamic purchase system

5.1.16. Further information, mediation and review

Review organisation: The High Court of Ireland

Organisation providing offline access to the procurement documents: Trinity College Dublin the University of Dublin_336

Organisation providing more information on the review procedures: The High Court of Ireland

Organisation receiving requests to participate: Trinity College Dublin the University of Dublin_336

Organisation processing tenders: Trinity College Dublin the University of Dublin_336

8. Organisations

8.1. ORG-0001

Official name: Trinity College Dublin the University of Dublin_336

Registration number: CHY 11

Postal address: 3 College Green

Town: Dublin

Postcode: D02 XH97

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

Email: mireilly@tcd.ie

Telephone: 018968586

Internet address: <https://www.tcd.ie>

Buyer profile: <https://www.tcd.ie>

Roles of this organisation:

Buyer

Organisation providing offline access to the procurement documents

Organisation receiving requests to participate

Organisation processing tenders

8.1. ORG-0002

Official name: The High Court of Ireland

Registration number: The High Court of Ireland

Department: The High Court of Ireland

Postal address: Four Courts, Inns Quay, Dublin 7

Town: Dublin

Postcode: D07 WDX8

Country subdivision (NUTS): Dublin (IE061)

Country: Ireland

Email: HighCourtCentralOffice@courts.ie

Telephone: +353 1 8886000

Roles of this organisation:

Review organisation

Organisation providing more information on the review procedures

8.1. ORG-0003

Official name: European Dynamics S.A.

Registration number: 002024901000

Department: European Dynamics S.A.

Town: Athens

Postcode: 15125

Country subdivision (NUTS): Βόρειος Τομέας Αθηνών (EL301)

Country: Greece

Email: eproc-esender@eurodyn.com

Telephone: +30 2108094500

Roles of this organisation:

TED eSender

Notice information

Notice identifier/version: 6c883707-72f6-452e-bd0c-45d9b74d52e2 - 01

Form type: Competition

Notice type: Contract or concession notice – standard regime

Notice subtype: 16

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